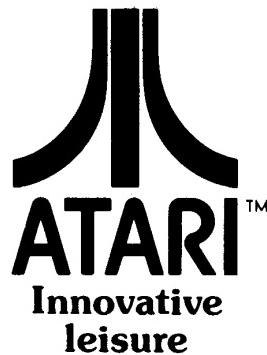
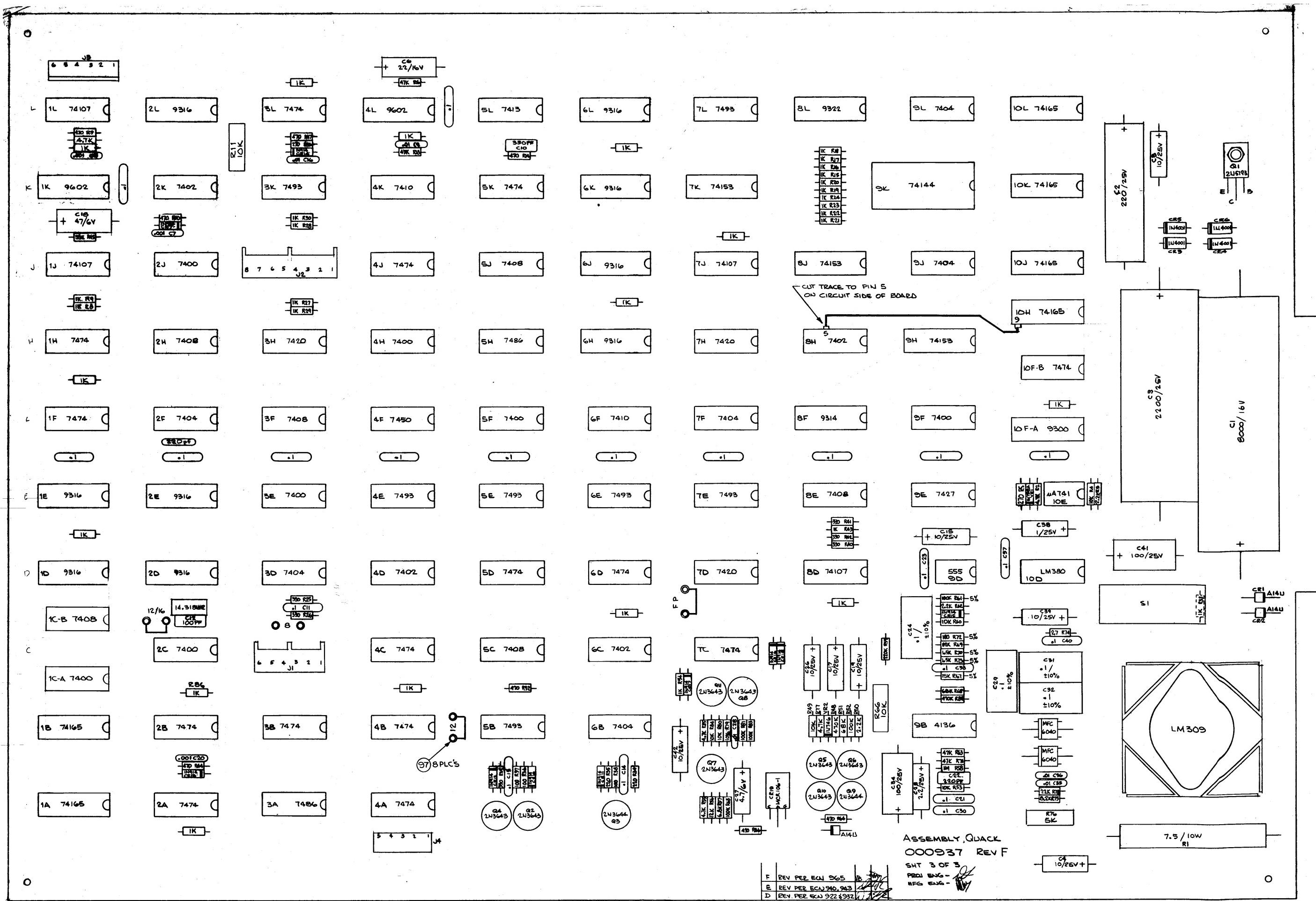


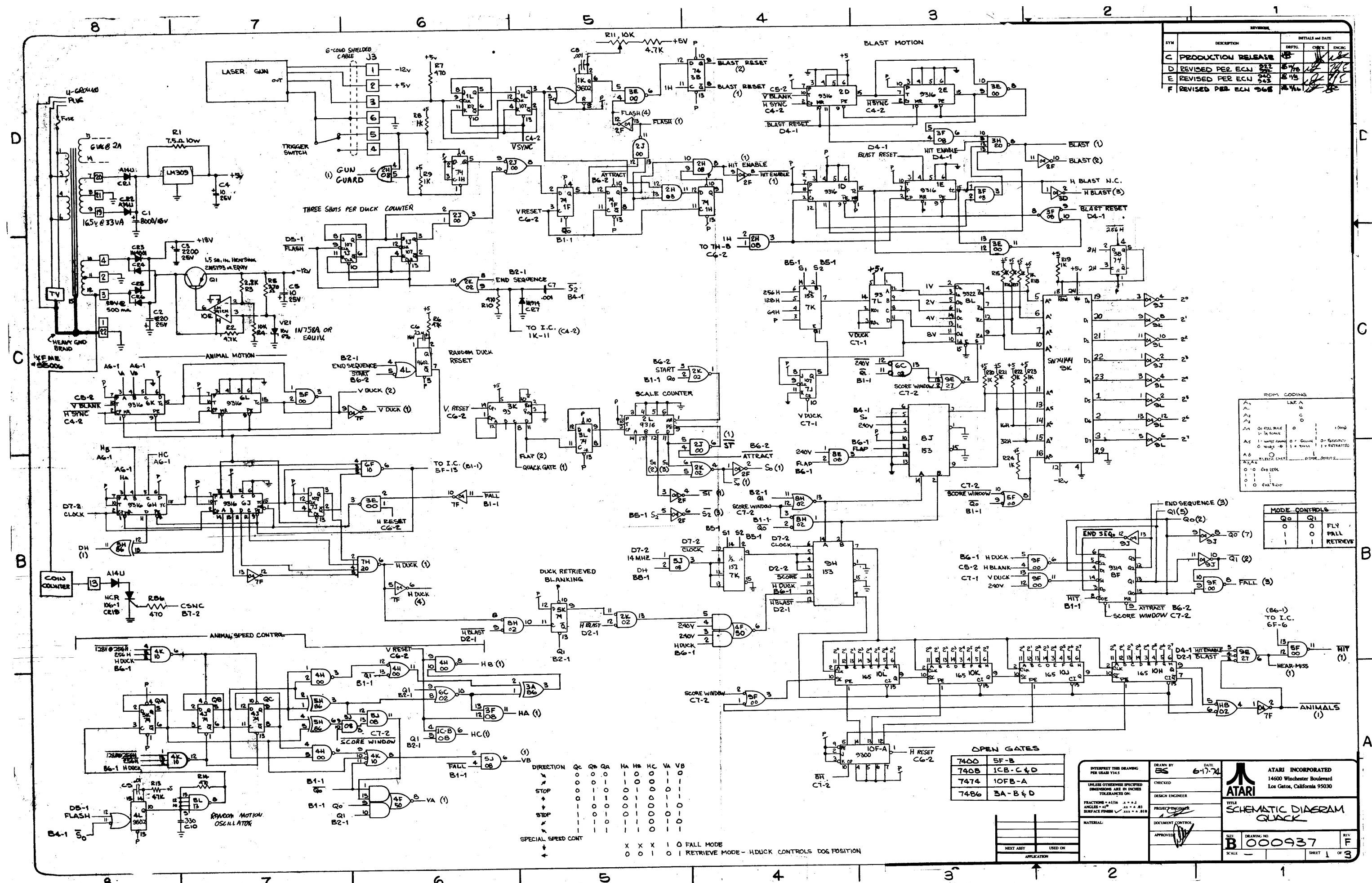
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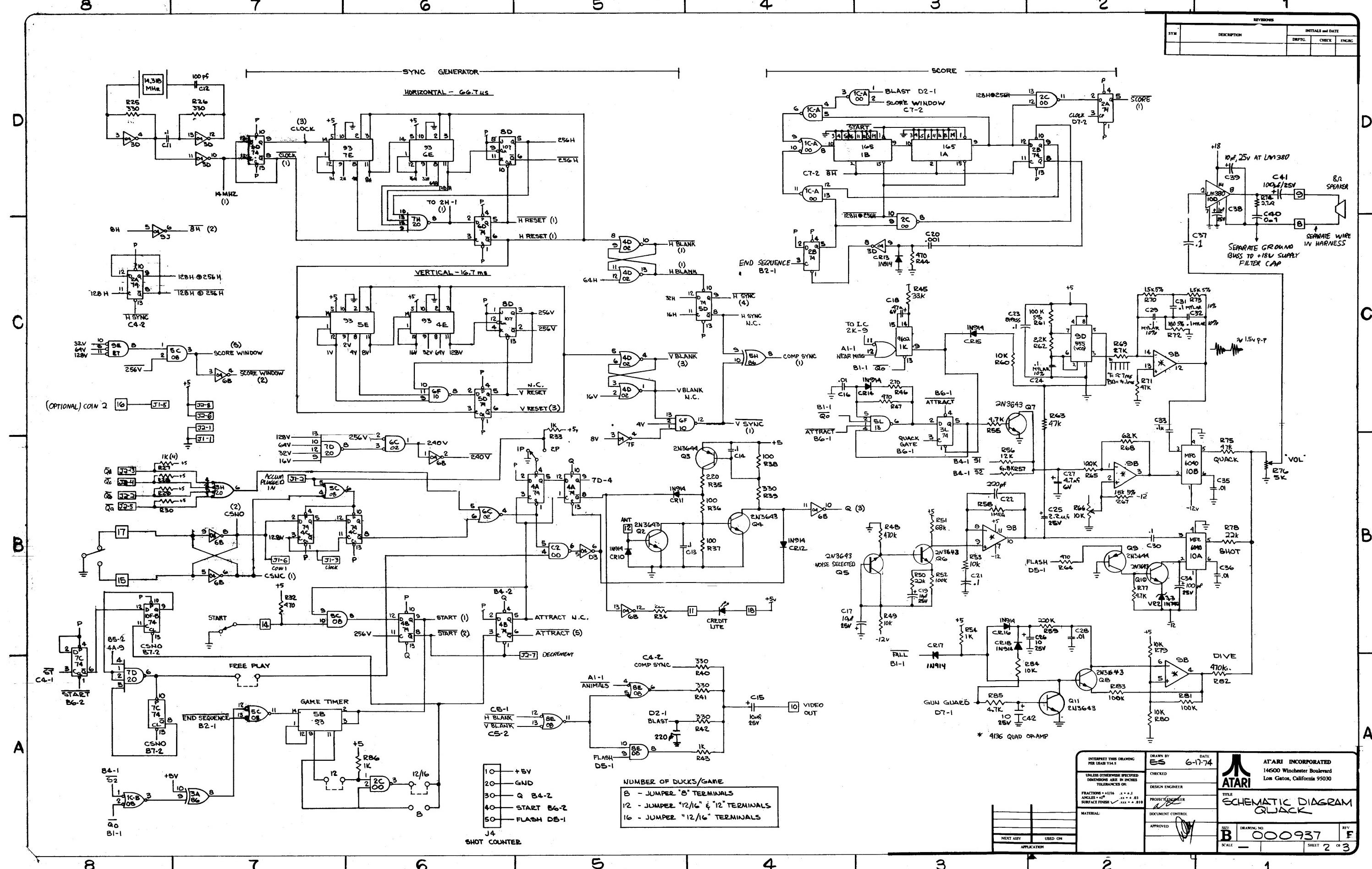
Operation and Maintenance Manual





INITIALS AND DATE	
DRFTG.	CHECKED
SYN	DESCRIPTION
C	PRODUCTION RELEASE
D	REVISED PER ECN 522 8/16/70
E	REVISED PER ECN 540 8/15/70
F	REVISED PER ECN 543 8/15/70
G	REVISED PER ECN 568 8/16/70





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REVISIONS

SYM	DESCRIPTION	INITIALS AND DATE		
		DRFTG	CHECK	ENRGD
A	PROD REL	10-5-74	PC	10/5/74
B	REV PER ECU BDR	10/10/74	PC	10/10/74
C	REV PER ECU BSG	10/16/74	PC	10/16/74

D

D

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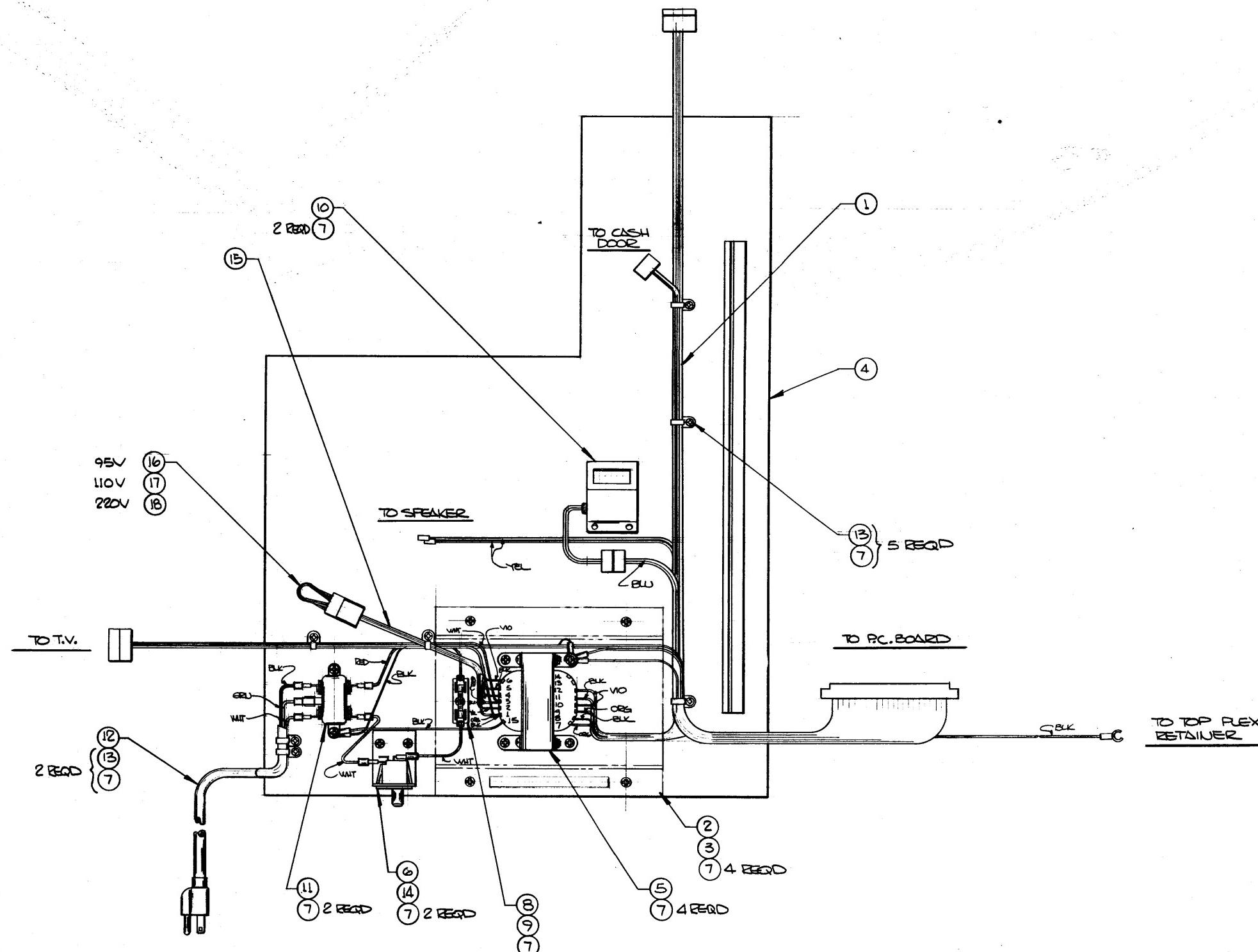
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INTERPRET THIS DRAWING PER USASI Y14.5		DRAWN BY AG	DATE 10-1-74	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:		CHECKED		
FRACTIONS = $\pm 1/16$.x = $\pm .1$ ANGLES = $\pm 1^\circ$.xx = $\pm .03$ SURFACE FINISH ✓ .xxx = $\pm .010$		DESIGN ENGINEER		
MATERIAL: SEE PLO 01918		PROJECT ENGINEER <i>[Signature]</i>		
		DOCUMENT CONTROL		
A001918		10-1-74		
NEXT ASSY	USED ON			
APPLICATION				
TITLE ASSEMBLY, ELECTRONICS TRAY				
SIZE D		DRAWING NO. A001978		REV C
SCALE				SHEET 1 OF 1

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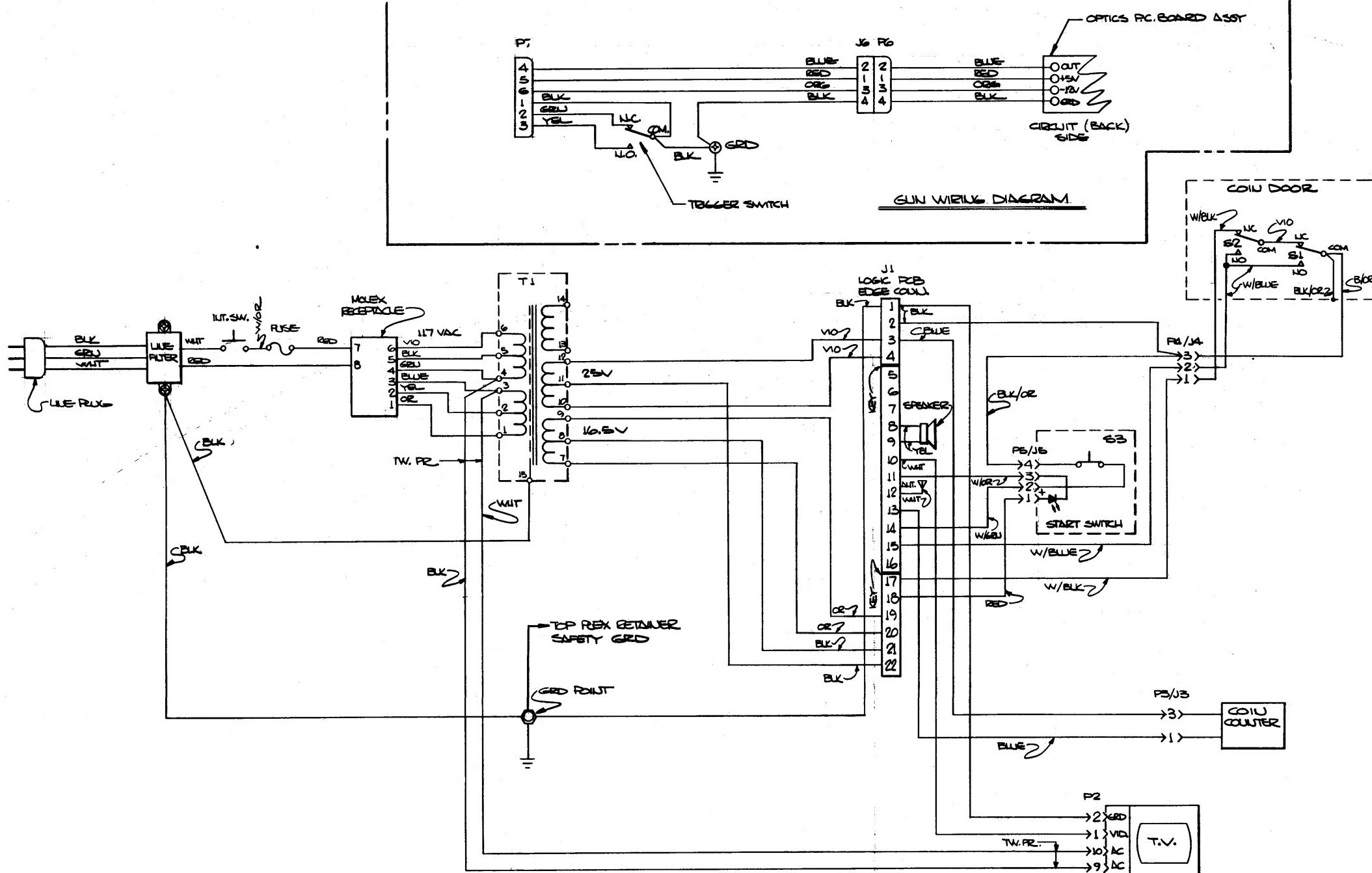
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REVISONS		INITIALS and DATE		
SYM	DESCRIPTION	DRFTG	CHECK	ENGRC
A	PROD REL	10874	JL	JK
B	REV PER ENCL 935	11-1-74	JL	JK

002485

INTERPRET THIS DRAWING PER USAF Y14.5	DRAWN BY COOK 10-22-74
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	DATE
FRACTIONS = $\pm 1/16$ $x = \pm .1$ ANGLES = $\pm 10^\circ$ $xx = \pm .03$ SURFACE FINISH ✓ $xxx = \pm .010$	CHECKED
DESIGN ENGINEER	PROJECT ENGINEER
DOCUMENT CONTROL	APPROVED
SIZE D DRAWING NO. 002485 REV B	SCALE 1 OF 1

ATARI INCORPORATED
14600 Winchester Boulevard
Los Gatos, California 95030

ATARI

TITLE
WIRING EXPOSURE DIAG.
"QUAK"

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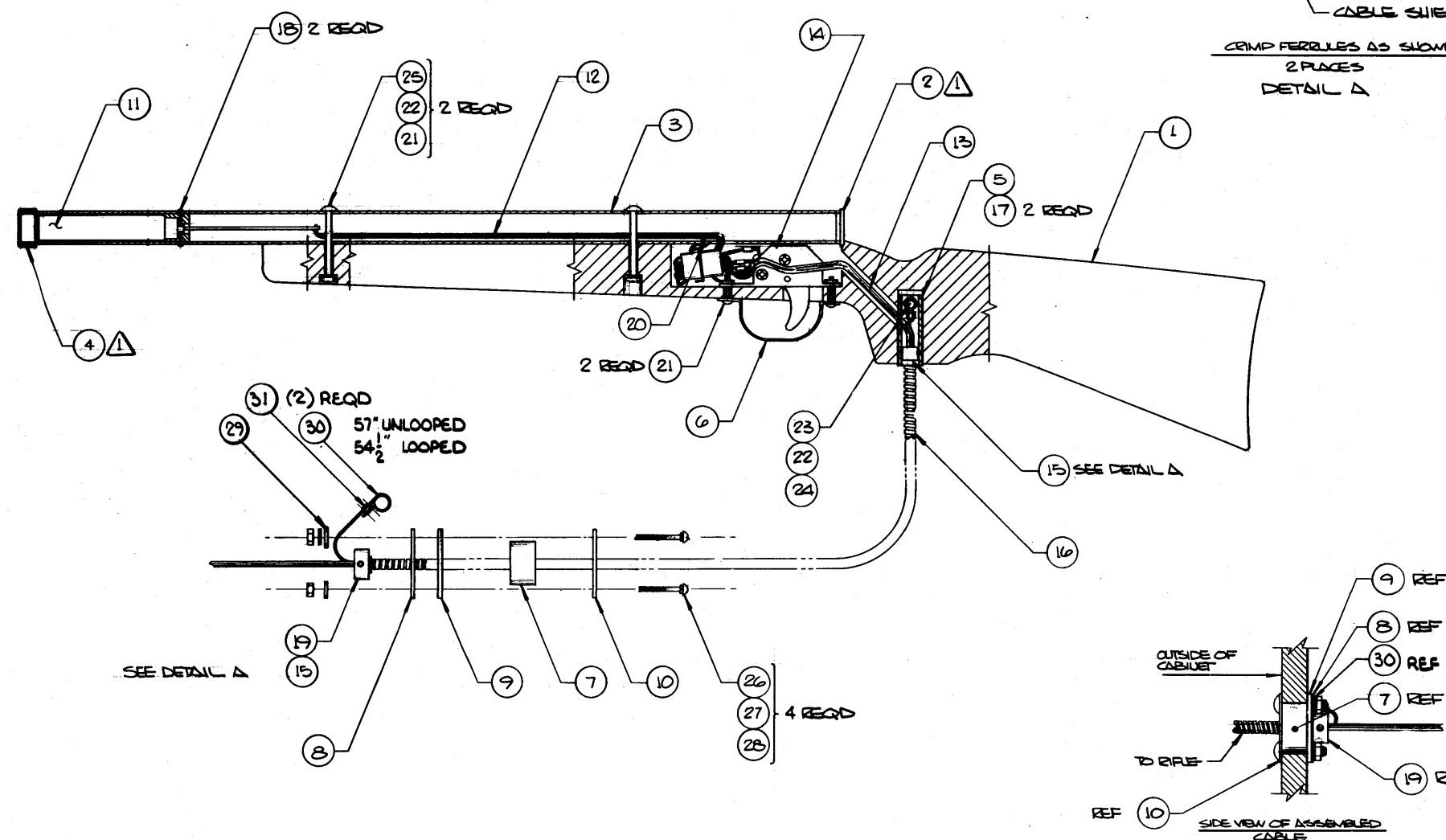
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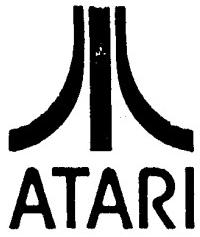
B

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REVISIONS				
SYM	INITIALS and DATE			
	DRFTG	CHECK	ENGRG	
D	PROD BEL REV 4 RECOMM PER ECU 958	11-19-74	AS	ME
E	REV PER ECU 963	11-26-74	AS	ME
F	REVISED PER ECN 977	12-10-74	AS	ME

INTERPRET THIS DRAWING PER U.S.A.S V14.5	DRAWN BY <i>COOK</i>	DATE 11-15-74
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:		
FRACTIONS = $\pm 1/16$	X = $\pm .1$	XX = $\pm .03$
ANGLES = $\pm 1^\circ$	XX = $\pm .03$	XXX = $\pm .010$
SURFACE FINISH ✓ XXX = $\pm .010$		
MATERIAL:	PROJECT ENGINEER <i>AT</i>	DOCUMENT CONTROL
SEE PL CO 001840	APPROVED <i>AT</i>	SIZE D DRAWING NO. A001840 REV F
ACQ/196 CMAK	NEXT ASSY USED ON	SCALE 1:1 SHEET 1 OF 1
APPLICATION		



Job Title P.C. BOARD ASSEMBLY - QUACK Dwg. P/L 000937

Parts List Specification

sheet 1 of 3

Drawn R. Milner

Checked *B. Smith-93* Mech. Eng.

Rev.

Proj. Eng. *A. Lang*

Elec. Eng. *A. Lang*

F

Rev.	Description	Apprv.	Rev.	Description	Apprv.
A	Release for Prod.	10-13-74			
B	Revise per ECN 814	9-27-74			
C	Rev. Per ECN 872 10-16-74				
D	Rev per ECN 922&932				
E	Rev per ECN 940&943				
F	REV PER ECN 965				

Item	Part. No.	Qty.	Description					
	A000937	Ref	Assembly	Drawing				
1	10101/10-0101	3	Resistor, Carbon,	10%, $\frac{1}{4}$ Watt,	100	ohm		
2	10102/10-0102	33	"	" "	1K	ohm		
3	10103/10-0103	7	"	" "	10K	ohm		
4	10105/10-0105	1	"	" "	1M	ohm		
5	10221/10-0221	2	"	" "	220	ohm		
6	10222/10-0222	3	"	" "	2.2K	ohm		
7	10223/10-0223	1	"	" "	22K	ohm		
8	10224/10-0224	1	"	" "	220K	ohm		
9	10271/10-0271	2	"	" "	270	ohm		
10	10123/10-0123	1	"	" "	12K	ohm		
11	10331/10-0331	6	"	" "	330	ohm		
12	10333/10-0333	1	"	" "	33K	ohm		
13	10471/10-0471	8	"	" "	470	ohm		
14	10472/10-0472	5	"	" "	4.7K	ohm		
15	10473/10-0473	4	"	" "	47K	ohm		
16	10474/10-0474	2	"	" "	470K	ohm		
17	10-0104	4	"	" "	100K	ohm		
18	10683/10-0683	2	"	" "	68K	ohm		
19	11104/10-5104	1	"	5%	"	100K	ohm	
20	11152/10-5152	2	"	" "	1.5K	ohm		
21	11153/10-5153	1	"	" "	15K	ohm		
22	11181/10-5181	1	"	" "	180	ohm		
23	19-313103	2	Trimpot, 10K					
24	11270/10-20P7	1	"	" 10%	"	2.7	ohm	
25	22502/19-311502	1	Trimpot, 5K					
26	30101/28-101101	1	Capacitor, Dipped, Mica,	100 pf				
27	30102/28-101221	2	"	" 220 pf				
28	30331/28-101331	1	"	" 330 pf				
29	34101/27-101104	21	"	Ceramic, .1 uf				
30	34102/27-101102	3	"	" .001 uf				
31	34104/27-101103	5	"	" .01 uf				
32	32101/21-101104	4	"	Mylar, 10%, .1 uf				
33	35102/24-250105	1	"	Electrolytic, 1 uf, 25V				
34	35103/24-250106	8	"	" 10 uf, 25V				
35	35222/24-250225	1	"	" 2.2 uf, 25V				
36	35472/24-060475	1	"	" 4.7 uf, 6V				
37	35473/24-060476	1	"	" 47 uf, 6V				
38	35509/24-160226	1	"	" 22 uf, 16V				

PARTS LIST SPECIFICATION

Dwg. P/L 000937

Title P.C. BOARD ASSY. - QUACK

sheet 2 of 3

Rev. F

Item	Part No.	Qty.	Description			
39	37000/24-160808	1	Capacitor, Electrolytic, 8000 uf, 16V			
40	37102/24-250227	1	" " 220 uf, 25V			
41	37103/24-250107	2	" " 100 uf, 25V			
42	37104/24-250228	1	" " 2200 uf, 25V			
43	70000/34-2N3643	8	Transistor, 2N 3643			
44	70001/34-2N3644	2	" 2N 3644			
45	70004/34-2N5193	1	" 2N 5193			
46	71000/31-1N914	10	Diode, 1N 914			
47	71001/31-1N4001	4	Diode, 1N 4001			
48	71006/31-A14F	3	Diode, 3A, A14F			
49	71012/32-1N758	1	Diode, 1N 758, Zener, 10V			
50	71013/32-1N746	1	Diode, 1N 746, Zener, 3.3V			
51	60000/69-001	1	Switch, DPDT			
52	72000/37-7400	7	Integrated Circuit, 7400			
53	72001/37-7402	4	" " 7402			
54	72002/37-7404	6	" " 7404			
55	72003/37-7410	2	" " 7410			
56	72004/37-7420	3	" " 7420			
57	72006/37-7427	1	" " 7427			
58	72009/37-7450	1	" " 7450			
59	72010/37-7474	15	" " 7474			
60	72012/37-7486	2	" " 7486			
61	72014/37-7493	7	" " 7493			
62	72015/37-74107	4	" " 74107			
63	72016/37-74153	3	" " 74153			
64	72017/37-9316	9	" " 9316			
65	72018/37-555	1	" " 555			
66	72025/37-9322	1	" " 9322			
67	72026/37-9602	2	" " 9602			
68	72027/37-7408	6	" " 7408			
69	72033/37-74165	6	" " 74165			
70	72036/37-9314	1	" " 9314			
71	72042/37-MFC6040	2	" " MFC 6040			
72	72050/37-7413	1	" " 7413			
73	72051/37-ua741	1	" " ua 741			
74	72048/37-LM380	1	" " LM 380			
75	72052/37-RC4136D	1	" " RC 4136 D			
76	72019/37-LM309	1	LM 309 K			
77	72074/37-2530N	1	Custom ROM, 2530 N			
78	75100/72-1610C	2	Screw, Pan Head, Phil., Stainless, #6-32 x 5/8" Lg.			
79	75101/75-056	2	Washer, Lock, #6			
80	75102/75-016C	2	Washer, Flat, #6			
81	75103/75-916S	2	Nut, Hex, #6-32			
82	75162/75-044	1	Washer, Split lock, #4			
83	75163/75-014S	1	Washer, Flat, #4			
84	75164/75-914S	1	Nut, Hex, #4-40			
85	75188/75-1408S	1	Screw, Pan Head, Phil., Stainless, #4-40 x 1"			
86	80086/79-42424	1	Socket, 24 Pin			
87	81001/90-101	1	Crystal, 14.318180 mhz			
88	83014/78-06001	1	Wakefield Heatsink			
89	19112/19-809w7p5	1	Resistor, 10 Watt, Wirewound, 7.5 ohm			
90	10682/10-0682	1	" Carbon, 10%, 1/4 Watt, 6.8K ohm			

PARTS LIST SPECIFICATION

Dwg. P/L 000937

Title P.C. BOARD ASSY. - QUACK

sheet 3 of 3

Rev. F

Item	Part No.	Qty.	Description					
91	10823/10-0823	1	Resistor, Carbon, 10%, $\frac{1}{4}$ Watt, 82 K ohm					
92	/10-0822	1	"	"	"	"		8.2K ohm
93	71009/35-MCR106-1	1	MCR 106-1					
94	/37-9300	1	Integrated Circuit, 9300					
95	/79-58017	1	Polarized Wafer, Molex #09-60-1061					
96	001873	1	Printed Circuit Board					
97	79-20213	8	TERMINAL					

QUACK



ASSEMBLY TITLE / Assembly Electronics Tray P/L 001978

PARTS LIST SPECIFICATION Page 1 of 1

Drawn	
Checked	Mech. Eng.
Proj. Eng.	Elec. Eng

REV.
C

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
A	PROD REL	10/4/74	<i>[Signature]</i>				
B	Rev per ECN 862	10/10/74	<i>[Signature]</i>				
C	Rev per ECN 886	10/17/74	<i>[Signature]</i>				

Item	Part Number	Qty.	DESCRIPTION
1	A001994	1	Assembly, Harness
2	000622	1	Cover, Transformer
3	000871	1	Label
4	A001979	1	Assembly, Tray/Cleat
5	55006/000855	1	Transformer
6	80029/71-2121	2	AC Power Interlock Switch
7	75200/72-6602	22	Screw, SM, Pan Hd., Phil., #6 x ½ Lg.
8	80001/79-3201	1	Fuse Holder
9	80002/46-20110	1	Fuse, 1 amp, Slo-Blo
10	80004/47-1001	1	Counter
11	90-3001	1	Filter, Power Line
12	83015/54-041	1	Power Cord, 8'
13	78-25001	7	Cable Clamp
14	83097/000268	2	Bracket, Switch Mounting
15	A001920	1	Harness, Voltage Selection
16	*A001921-01	A/R	Shorting Block, 95V
17	*A001921-02	A/R	Shorting Block, 110V
18	*A001921-03	A/R	Shorting Block, 220V

* Install Shorting Block per Voltage Required



ASSEMBLY TITLE

ASSEMBLY, RIFLE QUACK

P/L A001840

PARTS LIST SPECIFICATION

Page 1 of 1

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Checked

Proj. Eng.

Mech. Eng.

Elec. Eng

REV.

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Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
D	PROD REL/ECN 958	11-19-74	JL				
E	Rev per ECN 963	11-26-74	JPW				
F	Rev per ECN 977	12-10-74	AGP				

Item	Part Number	Qty.	DESCRIPTION
1	001847	1	Gun Stock
2	001843	1	Cap, Barrel
3	001846	1	Barrel, Gun
4	001841	1	Bumper
5	001853	1	Adapter, Cable
6	001848	1	Guard, Trigger
7	001941	1	Cable Support
8	001940	1	Clamp, Cable
9	001942	1	Mount, Shock
10	001939	1	Plate, Cable
11	A001852	1	Assembly, Optics
12	A002460	1	Assembly, Harness, Optics
13	A002458	1	Assembly, Harness, Gun
14	A001850	1	Assembly, Trigger
15	82-701	2	Ferrule
16	78-2000109L	54"	Cable, Stripwound
17	75-4103	2	Screw, Set, Cup Point, Allen, Stl, 10-24 x.19
18	73-1204	2	Screw, Drive, Rd Hd, .12 x .25 LG.
19	73-660707	1	Collar Set
20	75-6806	1	Screw, Sm, Pan Hd, #8 x .38 LG.
21	82-8812	4	Screw, Button Hd, #8-32 x .75 LG.
22	75-020S	3	Washer, Flat, Narrow Pattern, #10
23	82-302	1	Post, 1 $\frac{1}{4}$ " LG.
24	82-8806	1	Screw, Button Hd Socket Cap #8-32 x .38 LG.
25	82-301	1	Post, 2" LG.
26	75-045	4	Washer, Stl, Lock $\frac{1}{4}$ "
27	75-9155	4	Nut, Stl, Hex $\frac{1}{4}$ -20
28	75-5524N	4	Bolt, Stl, Carriage, 1/4-20x1-1/2 lg.
29	75-025S	1	Washer, Flat (1/4)
30	85-101	57"	Cable, Aircraft (unlooped) (500 lbs test)
31	78-23111	2	Sleeve, Air Cord